



**HE**

**0152 - 0502**

### UNIT DESCRIPTION

Compared with other chiller systems, the possibility offered by the HE series is to split the condensing part, normally air-cooled, from the evaporating part. It is a series of small medium-size units that are very well suited to civil air conditioning plants in particular, as the HE unit can be installed in a restricted space and connected to the externally positioned condenser section. This system layout also means that noise levels can be kept down. It is also useful should water shortages arise, as it can be used to replace existing water/water units without the need for modifications to the user's system, since all that is required for this changeover is the connection of the freon circuit and electrical supply to the remote condenser.

### STANDARD UNIT COMPOSITION

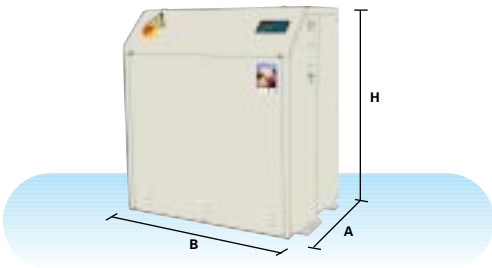
- Base frame made of galvanised polyester sheet.
- Hermetic scroll compressors (up to size 0302). Hermetic reciprocating compressors (for sizes 0402 and 0502).
- Integral control and adjustment by microprocessor with possibility of remote control.
- Extremely compact structure, fully demountable for total access.
- Evaporator plate type in highly efficient and low load loss stainless steel AISI 316.
- Electrical power and control panel complying with EN 60204-1/IEC 204-1 standards and interlock door mains isolator.
- Mains lock-door switch and differential pressure switch, water side supplied standard.
- Refrigerant charge.
- Non-freezing oil charge.
- General testing and operational test carried out in the factory.



## GENERAL TECHNICAL DATA

R22

MODELS		0152	0182	0202	0252	0302	0402	0502
<b>HE</b>								
Cooling capacity	① kW	39.8	47.8	55.3	69	83.4	107	128
Power input	① kW	10.8	12.7	14.5	18.1	23.8	32.4	40.3
Remote Condenser heat	① kW	50	59.7	68.9	86	106	137	166
<b>OPERATING WEIGHT</b>								
HE	Kg.	305	310	320	335	395	460	480
<b>DIMENSIONS</b>								
<b>A</b>	② mm	600	600	600	600	700	700	700
<b>B</b>	② mm	800	800	800	800	1120	1120	1120
<b>H</b>	mm	940	940	940	940	1425	1425	1425



① <b>Data referred to:</b>	
Chilled water	12/7 °C
Condensing temperature	+45 °C
② <b>Free areas required:</b>	
Evaporate water connection side	500 mm
Electrical panel side	700 mm

## MAIN FUNCTIONS OF THE CVM CONTROLS

	2	2	
Missing external consens led signal	•	•	Compressor start per hour and restarting time control
Remote on/off by external volt-free contact	•	•	Compressor working-hours control and display
Summer/winter mode in alternative to on/off remote switch	Par.	•	Compressor working hours balance system
Cumulative fault warning alarm	•	•	Led display of interface board correct operation
Suitable to control evaporator water pump	•	•	Auto-diagnostic of the electrical part
Evaporator inlet/outlet water temperature display	•	Opt.	Remote keyboard
Compressor/circuit failure signal	•		
Unit general-alarm signal	•		
Propor. regulating algorithm on the inlet water temp.	•		
Delayed compressor start	•		

•: standard  
 Opt.: available upon request  
 Par.: available modifying a value of the configuration parameters